Patent claims

- An arrangement for a dental replacement component, 1. for example in the form of all or part of a dental 5 bridge, tooth preparation (3), etc., which can be coloring which matches given the a surrounding the replacement component (in the patient's mouth), the replacement component having a reinforcing element (4) which comprises carbon 10 fiber wires which are arranged in one or more carbon fiber hoses and can be held together by means of hardenable substance so as to form a homogeneous part of the reinforcing element, characterized in that the carbon fiber part, at 15 least in its portion or portions directed toward the surrounding area, supports or is provided with additional fiber material with a color which better matches said coloring than does the carbon 20 fiber (8).
- 2. The arrangement as claimed in patent claim 1, characterized in that the additional fiber material has a tube shape and encloses all or said portion/portions of the carbon fiber.
- 3. The arrangement as claimed in patent claim 1 or 2, characterized in that the additional fiber material (9) is designed not only to cover the dark color of the carbon fiber, but also to increase the stiffness and/or strength of the homogeneous carbon fiber part.
- 4. The arrangement as claimed in patent claim 1, 2 or 3, characterized in that the additional fiber material comprises or consists of aluminum oxide fibers.
 - 5. The arrangement as claimed in patent claim 4,

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characterized in that the additional fiber material is substantially white.

- 6. The arrangement as claimed in any of patent claims
 1, 2 or 3, characterized in that the additional
 fiber material comprises or consists of paraaramid fibers.
- 7. The arrangement as claimed in patent claim 6, characterized in that the additional fiber material is substantially yellow.
- 8. The arrangement as claimed in any of patent claims 1-5, characterized in that the additional fiber material is provided with moisture absorption corresponding to or only slightly exceeding the moisture absorption of the carbon fiber.
- 9. The arrangement as claimed in any of patent claims
 1-8, characterized in that the layer or wall
 thickness of the additional fiber material is 1-5%
 of the thickness or diameter of the reinforcing
 element.
- 25 10. The arrangement as claimed in any of patent claims 1-9, characterized in that carbon fiber hoses with carbon fiber wires are placed in a hose made of the additional fiber material.
- 30 11. A system for producing a dental replacement component, for example in the form of a dental bridge (3), tooth preparation (10), etc., which can be given a coloring which matches the area surrounding the component, said component having a reinforcing element (4) which comprises carbon fiber wires which are arranged in one or more carbon fiber hoses and can be held together by means of hardenable substance so as to form a homogeneous part of the reinforcing element,

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characterized in that identification equipment is designed (13)to identify the treatment the patient and to transmit situation on information to computer equipment (15) which, as a said of information through function and interaction with a user (24), is intended to permit display, on screen, of the replacement component and of a reinforcing element included in said component and having a core (8) or inner part of carbon fiber, and fibers (9, 9') completely or partially covering the core or inner part and made of a material, for example aluminum oxide or paraaramid, having a color which better matches said coloring than does the carbon fiber, and in that equipment involving considerable manual and/or substantially fully automated equipment (PROCERA®) is arranged to take part in production of the reinforcing element on the basis of empirical data concerning the core and the fiber covering this, for example with the aid of data on diameters (D, D1), thicknesses (t), qualities, color, relations between the carbon fiber and the additional fiber, etc.